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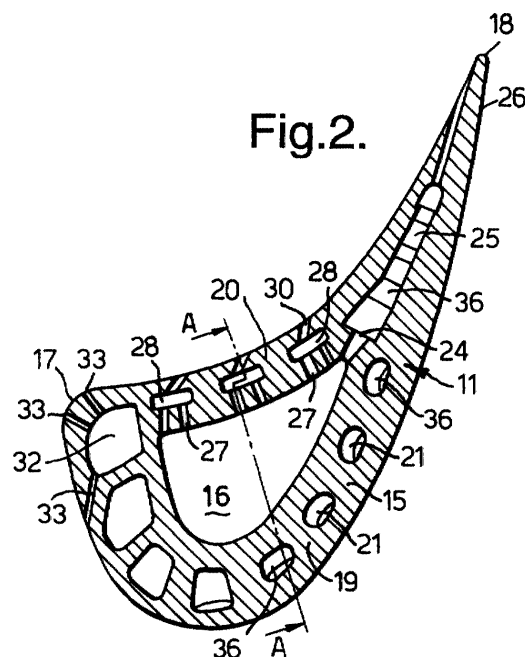
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(54) **Cooled aerofoil for a gas turbine engine**

(57) A hollow cooled aerofoil blade (10) is provided with a central, lengthways extending plenum (16) and has pressure and suction flanks (20,15). The suction flank (15) has lengthways extending passages (21) therein that direct cooling air from the root region (13) into the central plenum (16). From the central plenum, the cooling air flows through a first set of apertures (27) into lengthways extending passages (28) in the pressure flank (20). The cooling air then flows through a second set of apertures (30) in the pressure flank to provide film cooling of the pressure flank (20) external surface.



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EUROPEAN SEARCH REPORT

Application Number
EP 00 30 0108

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
Y	US 5 702 232 A (MOORE ROBERT P) 30 December 1997 (1997-12-30) * column 2, line 65 - column 3, line 52; figure 3 *	1-12	F01D5/18
Y	US 5 342 172 A (PICHON PHILIPPE M P ET AL) 30 August 1994 (1994-08-30) * column 3, line 10 - line 21 * * column 4, line 64 - column 6, line 3; figures 10,11 *	1-12	
A	US 5 562 409 A (LIVSEY DUNCAN J ET AL) 8 October 1996 (1996-10-08) * column 1, line 49 - column 2, line 7; figure 1 *	1-12	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			F01D
The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 3 May 2002	Examiner Teissier, D
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 00 30 0108

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
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